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TRACTOR AND AUTOMOBILE INDUSTRIES INTRODUCE NEW MODELS

NEW ELECTRIC TRACTORS ARE TESTED -- Trud, No 169, 20 Jul 49

New electric wheel tractors built in Moscow are now being tested in Gorki Leninskiye on the experimental field of the All-Union Academy of Agricultural Sciences imeni V. I. Lenin. The new tractor was designed by the All-Union Scientific Research Institute of Electrification of Agriculture and the All-Union Scientific Research Institute of Mechanization of Agriculture (chief designer, V. F. Vorob'yev, Candidate in Technical Sciences). The tractors were built in a very short time by Moscow enterprises above their regular production plans.

The Moscow electric tractors are equipped with a 27-kilowatt motor. They are easy to handle, operate without a hitch, and have all necessary conveniences for the driver. Their simple design makes it possible to start serial production at a low cost.

The experimental tests were attended by G. M. Popov, secretary of the Moscow Oblast and City Committees of VKP(b), N. P. Firyubin, secretary of the Moscow City Committee of VKP(b), N. G. Naumov, Vice-Minister of Agriculture USSR, representatives of Moscow enterprises, mechanical experts and agronomists of Leninskaya MTS and the MTS imeni Molotov, and workers of the experimental base of the Academy of Agricultural Sciences. The field of tests of the electric tractors have shown their advantages over tractors with internal-combustion engines. They all started smoothly and operated with four-bottom plows equipped with coulters, plowing the moist, heavy soil at a depth of 30 centimeters. They are able to maintain a constant plowing depth.

Vice-Minister of Agriculture Naumov noted the low cost of operation of electric tractors as compared with Diesel tractors.

One of the outstanding qualities of electric tractors is their capacity for deep plowing, which is an important factor in striving for superior crops.

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Considerable progress has been made toward complete rural electrification in Moscow Oblast. At present more than 4,500 kolkhozes in this oblast are electrified. The new electric tractors are an important contribution to the total electrification of Moscow Oblast kolkhozes in 1950.

The greater part of the work in building the new tractor was done by the Second Automobile Repair Plant of the Moscow Soviet, in cooperation with several other enterprises. The first four models of the tractor were built in 2 weeks.

[For a photograph of the above tractor model see CIA Photograph Accession No 4320]

Moskovskiy Komsomolets, No 89, 21 Jul 49

Fourteen Moscow plants cooperated in building the first experimental model of the Moskva electric tractor. The Second Automobile Repair Plant of the Moscow City [Soviet] Executive Committee assembled the tractor and other plants made parts for it.

The Plant imeni Vladimir Il'ich made the cable drum, the "Gazoapparat" Plant made the cable boom, the EMIZ Plant parts for the trolley, the "Steklomashina" Plant the reducer for the drum shaft, and the Experimental Machine and Scale Plant the cable collector.

The electric tractor is an improvement over internal-combustion engine tractors in many ways. The cost of plowing is cut in half. The electric tractor requires less frequent repair. In an internal-combustion engine tractor, the bearings must be tightened after plowing 50 - 80 hectares, the rings changed after plowing 180 - 200 hectares, and pistons changed after 400 hectares. None of these repairs are necessary in the electric tractor.

The electric tractor has five more horsepower than an internal-combustion engine tractor. Where the latter could plow with a three-bottom plow, the new tractor can pull a four-bottom plow at a depth of 35 centimeters. The tractor's motor is powered by 300-350 volts on an alternating current.

SKIDDING TRACTORS DELIVERED TO ARKHANGEL'SK OBLAST -- Leningradskaya Pravda, No 164, 14 Jul 49

A large number of KT-12 skidding tractors manufactured by the Kirov Plant in Leningrad were sent to Vel'sk, Arkhangel'sk Oblast. Thirty tractors for timber skidding are being shipped to Rovdinskiy, Shenkurskiy, and Vel'skiy timber managements. The use of these tractors will speed up the conversion to continuous logging in a number of timber centers.

NEW TRUCK DESIGNED -- Sovetskaya Estoniya, No 165, 15 Jul 49

An engineer of the Leningrad Oblast Automobile Trust has invented a device which raises the capacity of a trailer truck by 100 percent and at the same time does away with the trailer. A swinging hinge mechanism is mounted on the frame of a 3-ton ZIZ-5 machine. An all-welded frame, up to 6 meters long, is fastened to this mechanism, and the frame is outfitted with a third axle. This design increases the maneuverability of the truck and enables it to turn on place. The speed of the modified truck is considerably higher than that of the trailer truck, and the cost of handling freight in it is 40 - 45 percent lower. One model has hauled a load of 7 - 7.5 tons.

NEW STEAM AUTOMOBILE -- Sovetskaya Latviya, No 168, 19 [illegible]

The Scientific Research Automobile and Automobile Motor [illegible] designed a new type of steam automobile which is equipped [illegible] installation and operates on low-calorific hard fuel, [illegible] motor and mechanisms of the steam installation are placed [illegible] behind the drivers' cabin. The furnace arrangement is such [illegible] not have to tend to the fueling of the motor while the automobile [illegible] The fuel falls into the fire grate by force of gravity. The fuel [illegible] about one cubic meter of wood.

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